

## Section 5: Relationship Transferability

### *Objectives*

- Understand the difference between transferable and nontransferable relationships
- Describe and give an example of relationship nontransferability
- Illustrate nontransferable relationships on ERDs

### *Vocabulary*

Directions: Identify the vocabulary word for each definition below.

1. \_\_\_\_\_ Property of a relationship between A and B, where an instance of A is related to an instance of B, and the association can be moved to another instance of B.
2. \_\_\_\_\_ Property of a relationship where an instance of A is related to an instance of B, and the association cannot be moved to another instance of B

### *Try It / Solve It*

1. Draw softboxes for each of the following. Draw relationship lines and correctly label each relationship in both directions. Indicate non-transferability when appropriate.
  - a. Each town may be the birthplace of many people. Each person must be born in one and only one town.
  - b. Each room may house one or more guests. Each guest may stay in one and only one room.
  - c. Each employee must work for one and only one department. Each department may have one or more employees.
  - d. Each hotel may be the host of one or more guests. Each guest may be hosted in one or more hotels.
  - e. Each message must be addressed to one or more persons. Each person may be the addressee of one or more messages.
  - f. Each garment must have one and only one price. Each price may be for one or more garments.

- g. Each airline coupon must be used for one and only one destination. Each destination may be visited with one or more coupons.
- h. Each automobile must use one and only one tire size. Each tire size may be used by one or more automobiles.
- i. Each child must have one and only one mother. Each mother must be the parent of one or more children.
- j. Each person must be of one and only one blood type. Each blood type may classify one or more persons.
- k. A person may be on one or more junk-mail lists. Each junk list may contain one or more persons.
- l. Each student may learn from one or more teachers. Each teacher may educate one or more students.
- m. Each school may be attended by one or more honor students. Each honor student must attend one and only one school.
- n. Each fingerprint must belong to one and only one person. Each person must have one and only one fingerprint.